Improve 
$$h(x_{R}...x_{K}, y_{1}...y_{K}) = manage \prod_{\substack{(O, K) \in K^{2}K \in K}} h(x_{R}y_{K}|O, A)$$

$$= maxim e \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)} \prod_{\substack{(O, K) \in K^{2}K \in K}} \frac{1}{1 + exp(O^{T}x_{K} - A)$$