Let us define a function:

$$\phi: \mathcal{F}_{q_{\mathbf{z}|\mathbf{x}}} \to \mathbb{R}, \quad q_{\psi}(\mathbf{z}|\mathbf{x}) \mapsto -D_{KL}(q_{\psi}(\mathbf{z}|\mathbf{x})||p_{\theta}(\mathbf{z}|\mathbf{x})) + log(p_{\theta}(\mathbf{x}))$$

The term,  $log(p_{\theta}(\mathbf{x}))$ , is in that function just a constant. Then the following statement holds true up to a constant:

$$\underset{q_{\psi}(\mathbf{z}|\mathbf{x}) \in \mathcal{F}_{q_{\mathbf{z}|\mathbf{x}}}}{\arg\min} \ D_{KL}(q_{\psi}(\mathbf{z}|\mathbf{x})||p_{\theta}(\mathbf{z}|\mathbf{x})) = \underset{q_{\psi}(\mathbf{z}|\mathbf{x}) \in \mathcal{F}_{q_{\mathbf{z}|\mathbf{x}}}}{\arg\max} \ \phi(q_{\psi}(\mathbf{z}|\mathbf{x}))$$