Arrows only in literals

Suppose $\Gamma \models \text{AI}^\Delta(C)$. We show:

① If a Γ-term γ contains a lifting variable x_δ in $\text{AI}^\Delta(C)$ such that x_δ also occurs grey in $\text{AI}^\Delta(C)$, then there is an arrow from x_δ to γ.

② Quantifier order among other lifting variables is not relevant.

This shows that $\Gamma \models \text{AI}(C)$.