$$\begin{array}{cccc}
& \cdots & \longrightarrow C_q(A) \xrightarrow{\partial_q} C_{q-1}(A) & \longrightarrow \cdots \\
\downarrow & & \downarrow_{\text{in}} & \downarrow_{\text{in}} & \downarrow \\
& \cdots & \longrightarrow C_q(X) \xrightarrow{\partial_q} C_{q-1}(A) & \longrightarrow \cdots
\end{array}$$